ABSTRACT

A bar code or similar symbol can be printed accurately within a specified printing area by a printer for printing such symbols. The printer has a symbol image generator for converting display data to a symbol and has hardware or software for reporting the size of the converted symbol to a host device. The host sends specific commands and text data for representation in the printed symbol to the printer for printing. As a result, the host can confirm whether printing within the specific area is possible.

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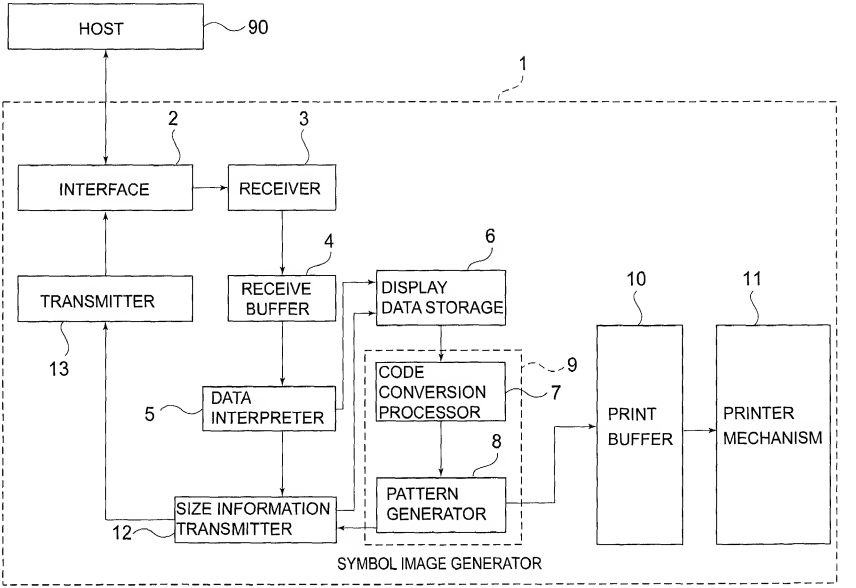

FIG. 1

REJECTED - NOT ENTERED

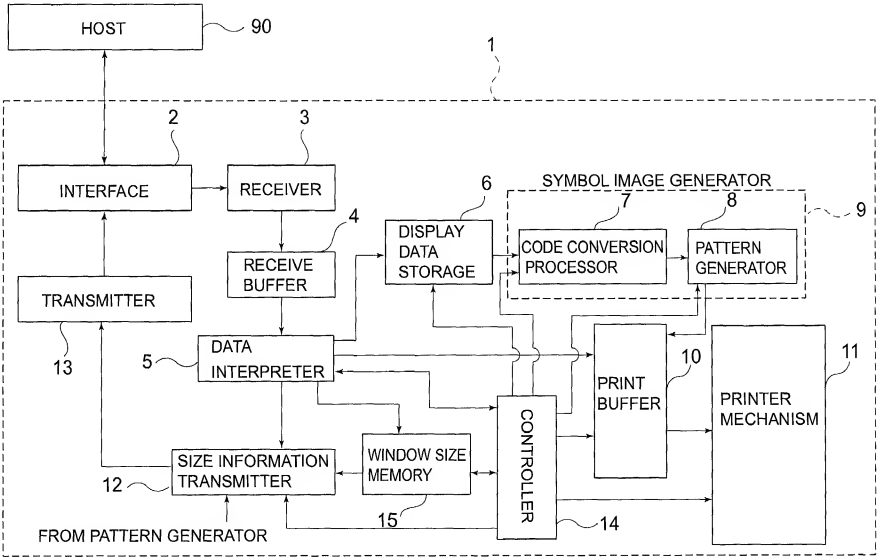

FIG. 2

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COMMAND CODE	PARAMETERS	FUNCTION
XXX1	a1a2	SPECIFIES NUMBER OF COLUMNS (ROW LENGTH) OF PDF417 SYMBOL
XXX2	b1b2	SPECIFIES NUMBER OF ROWS IN PDF417 SYMBOL
XXX3	c1c2	SPECIFIES PDF417 SYMBOL MODULE WIDTH
XXX4	d1d2	SPECIFIES PDF417 SYMBOL ROW HEIGHT
XXX5	e	SPECIFIES PDF417 SYMBOL ERROR CORRECTION LEVEL
XXX6	f	SETS PDF417 SYMBOL OPTIONS
XXX7	g1-gn	STORES RECEIVED DATA TO DISPLAY DATA STORAGE
XXX8	-	PRINTS DISPLAY DATA STORED TO DISPLAY DATA STORAGE AS A SYMBOL
XXX9	-	TRANSMITS THE SYMBOL SIZE FOR THE STORED DISPLAY DATA IF PRINTED AS A SYMBOL

FIG. 3

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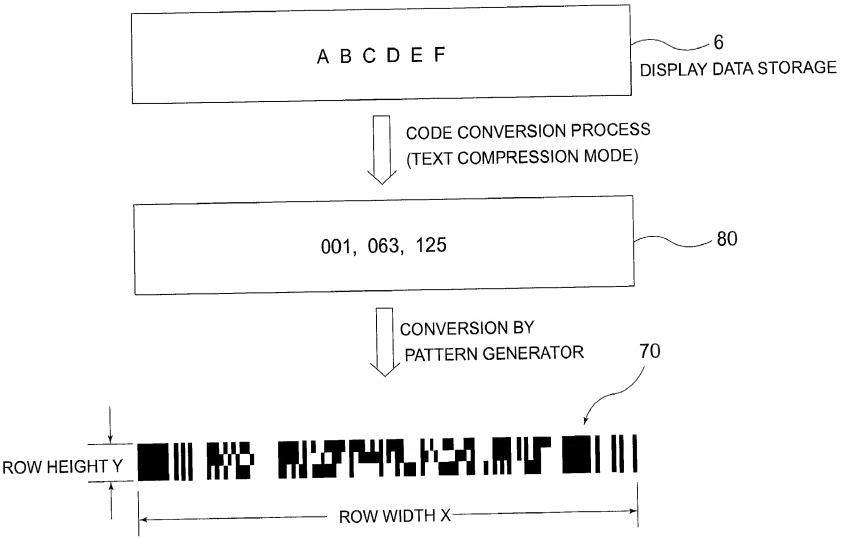

FIG. 4

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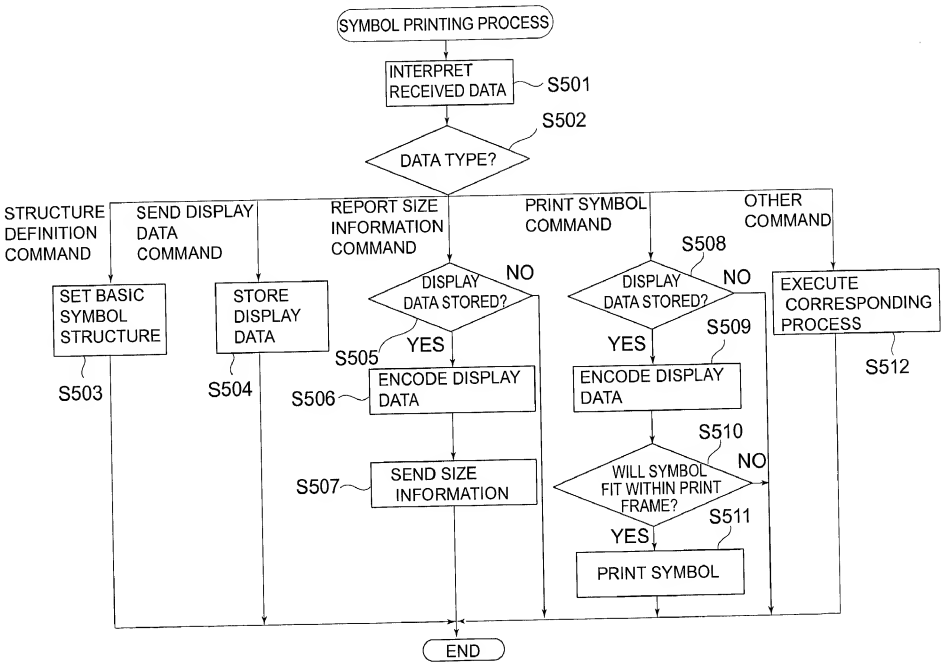

FIG. 5

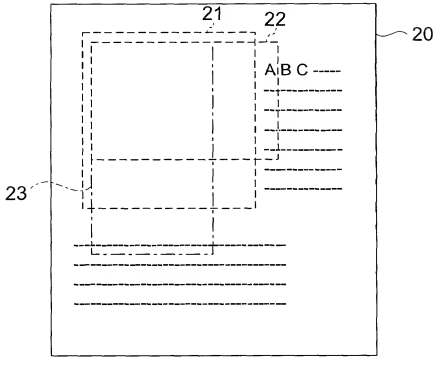

FIG. 6

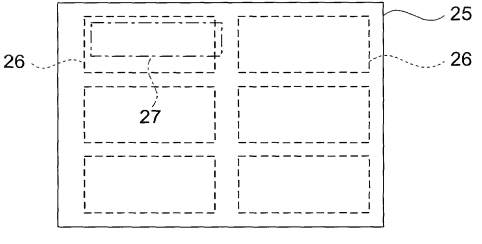

FIG. 7

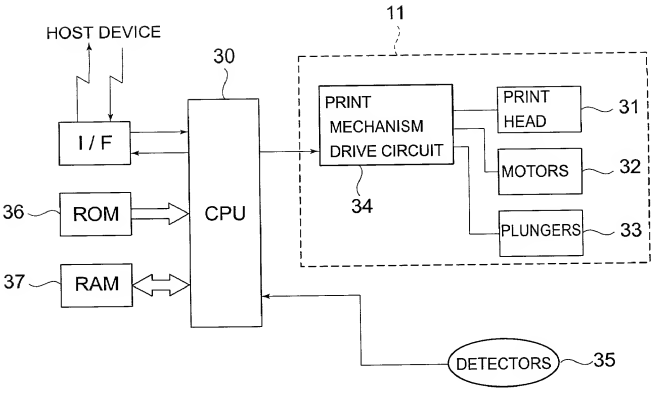
11
HOST DEVICE
30
I / F
36
ROM
37
RAM
CPU
PRINT
MECHANISM
DRIVE CIRCUIT
34
PRINT
HEAD
31
MOTORS
32
PLUNGERS
33
DETECTORS
35

FIG. 8

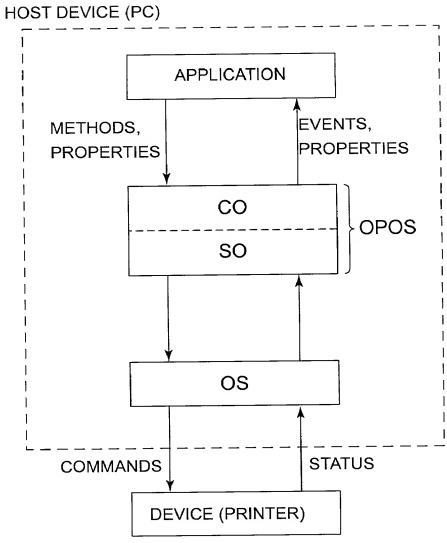
HOST DEVICE (PC)
APPLICATION
METHODS,
PROPERTIES
EVENTS,
PROPERTIES
CO
SO
OPOS
OS
COMMANDS
STATUS
DEVICE (PRINTER)

FIG. 9

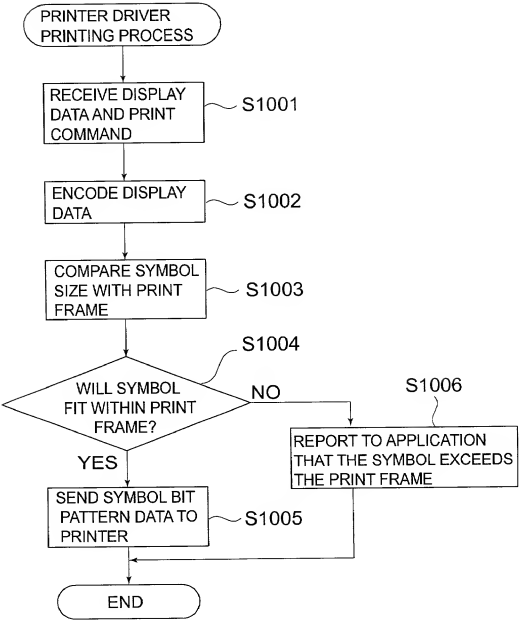
PRINTER DRIVER PRINTING PROCESS
RECEIVE DISPLAY DATA AND PRINT COMMAND
S1001
ENCODE DISPLAY DATA
S1002
COMPARE SYMBOL SIZE WITH PRINT FRAME
S1003
S1004
WILL SYMBOL FIT WITHIN PRINT FRAME?
NO
S1006
REPORT TO APPLICATION THAT THE SYMBOL EXCEEDS THE PRINT FRAME
YES
SEND SYMBOL BIT PATTERN DATA TO PRINTER
S1005
END

FIG. 10

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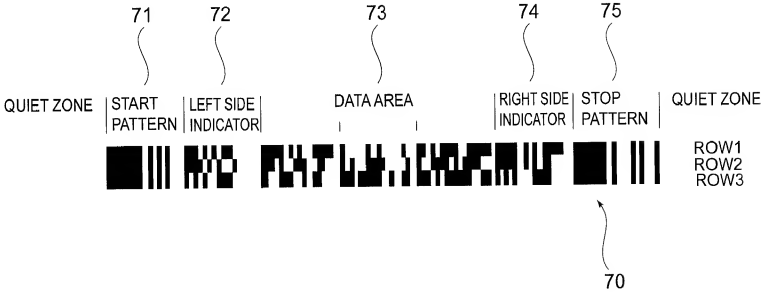

FIG. 11A

005 810 032	ROW1
094 179 880	ROW2
563 781 904	ROW3

FIG. 11B

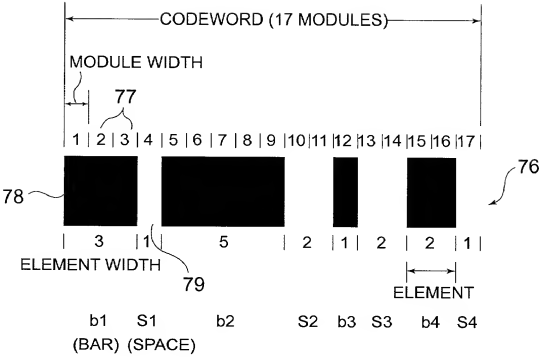
CODEWORD (17 MODULES)
MODULE WIDTH
77
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17
76
78
3 1 5 2 1 2 2 1
ELEMENT WIDTH
79
ELEMENT
b1 S1 b2 S2 b3 S3 b4 S4
(BAR) (SPACE)

FIG. 12